

AMENDMENTS TO THE CLAIMS:

1. (Previously Amended) A core structure of an integral heat-exchanger, comprising: at least two first heat exchanger tubes which extend in parallel with each other; at least two second heat exchanger tubes which extend in parallel with each other, wherein the two second heat exchanger tubes are juxtaposed with the first heat exchanger tubes; and

a corrugated fin including a corrugated first part interposed between said first heat exchanger tubes, a corrugated second part interposed between said second heat exchanger tubes, and a flat connection part arranged between the corrugated first and second parts,

wherein said corrugated first part of the fin is formed with a plurality of first louvers each extending substantially between the two first heat exchanger tubes,

wherein said corrugated second part of the fin is formed with a plurality of second louvers each extending substantially between the two second heat exchanger tubes, wherein an innermost one of said second louvers is positioned away from an innermost end of said corrugated second part of the fin by a given length, and

wherein said flat connection part is formed with a third louver in the vicinity of an innermost one of said first louvers, wherein said third louver is constructed to obstruct a heat transfer in the fin.

2. (Previously Amended) A core structure as claimed in Claim 1, wherein said first louvers and second louvers are constructed to improve a heat radiation of the fin, and wherein each of said first, second, and third louvers extends in a direction perpendicular to the direction in which air flows.

3. (Cancelled)

4. (Previously Amended) A core structure as claimed in Claim 1, wherein said second heat exchanger tubes are located behind said first heat exchanger tubes with respect to a direction in which air flows.

5. (Previously Amended) A core structure as claimed in Claim 4, wherein said first heat exchanger tubes and said corrugated first part of the fin are adapted to act at a lower temperature, and wherein said second heat exchanger tubes and said corrugated second part of the fin are adapted to act at a higher temperature.

6. (Previously Amended) A core structure as claimed in Claim 5, said first heat exchanger tubes are arranged to have a refrigerant of an automotive air conditioner flow therethrough, and wherein said second heat exchanger tubes are arranged to have an engine cooling water flow therethrough.

7. (Previously Amended) A core structure as claimed in Claim 1, wherein the distance between said third louver and the innermost end of said corrugated second part of the fin is less than 12 mm, and wherein said given length is greater than a pitch at which said second louvers are arranged.

8. (Previously Amended) A core structure as claimed in Claim 1, wherein the length between the third louver and the innermost one of said second louvers is substantially equal to the length of said flat connection part of said fin.

9. (Previously Amended) A core structure as claimed in Claim 1, wherein a front cluster including said first louvers and said third louver and a rear cluster including said second louvers are arranged symmetrically with respect to said flat connection part of said fin.

10. (Previously Amended) A core structure as claimed in Claim 9, wherein a center line of said corrugated fin is located in a center portion of said flat connection part.

11. (Previously Amended) A core structure as claimed in Claim 1, wherein the width of the first heat exchanger tubes is different from that of the second heat exchanger tubes.

12. (Cancelled)

13. (Previously Amended) A core structure of an integral heat-exchanger, comprising:

at least two first heat exchanger tubes which extend in parallel with each other;

at least two second heat exchanger tubes which extend in parallel with each other,

wherein said second heat exchanger tubes are juxtaposed with said first heat exchanger tubes; and

a corrugated fin including a corrugated first part interposed between said first heat exchanger tubes, a corrugated second part interposed between said second heat exchanger tubes, and a flat connection part arranged between the corrugated first and second parts,

wherein said corrugated first part of the fin is formed with a plurality of first louvers each extending substantially between said first heat exchanger tubes,

wherein said corrugated second part of the fin is formed with a plurality of second louvers each extending substantially between said second heat exchanger tubes, and

wherein said flat connection part is formed with a plurality of heat radiation portions, wherein each radiation portion is constructed not to deteriorate the heat transfer in the fin substantially.

14. (Cancelled)

15. (Cancelled)

16. (Cancelled)

17. (Cancelled)

18. (Cancelled)

19. (Cancelled)

20. (Cancelled)

21. (Cancelled)

22. (Cancelled)

23. (Cancelled)

24. (Cancelled)

25. (Cancelled)